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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/637,604	08/08/2003	Alexander Gordon Barr	279.398US2	3716
7590 12/08/2004 SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938 MINNEAPOLIS, MN 55402			EXAMINER	
			KOCH, GEORGE R	
			ART UNIT	PAPER NUMBER
		1734		
			DATE MAILED: 12/08/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/637,604	BARR ET AL.			
Office Action Summary	Examiner	Art Unit			
	George R. Koch III	1734			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply left NO period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a rewithin the statutory minimum of thirty ill apply and will expire SIX (6) MON cause the application to become AR	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication.			
Status					
1) Responsive to communication(s) filed on <u>02 Se</u>	<u>ptember 2004</u> .				
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 8 and 19 is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-4, 6, 7, 10-16, 18 and 20 is/are rejection is/are objected to. 8) Claim(s) are subject to restriction and/or	ted.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accep					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign p a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau (* See the attached detailed Office action for a list of	have been received. have been received in Ap y documents have been re PCT Rule 17.2(a)).	plication No eceived in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/2/04; 8/8/03.	4) Interview Sur Paper No(s)/I 5) Notice of Info 6) Other:	Mail Date rmal Patent Application (PTO-152)			

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of claims 1-7, 9-18 and 20 in the reply filed on 9/2/2004 is acknowledged.
- 2. In the eventuality that the independent claims contain allowable subject matter not directed towards the species, the species will be rejoined.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Breyen (US Patent 6,042,624).

Breyen discloses an apparatus for forming a capacitor stack for a flat capacitor, comprising a fixture (see Figures 5a, 5b, and 5c) for holding a plurality of capacitor layers defining a capacitor stack as each of the plurality of capacitor layers is placed onto the capacitor stack, and means capable of continually applying a compression force (springs 213a and 213c) on the capacitor stack until each of the plurality of capacitor layers have been placed onto the capacitor stack.

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5. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Hahne (WO98/51602).

Hahne discloses an apparatus capable of forming a capacitor stack comprising a fixture (Figure 1, items 2, 3, 4 and 8) capable of holding a plurality of capacitor layers defining a capacitor stack until each of the plurality of capacitor layers have been placed on the stack, and means for continually applying a compression force (items 6, 7 and 9) on the capacitor stack until each of the plurality of capacitor layers have been placed on the stack.

As to claim 2, Hahne discloses that the fixture includes a base pad (item 8) which is capable of being continually urged upwards.

As to claim 3, in addition to the base pad (item 8), Hahne discloses an upper member capable of contacting the top surface of a capacitor stack (flaps 13 and 14).

As to claim 4, the side members of the fixture (Figure 1, items 2 and 3) are capable of functioning as an alignment system as claimed.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Breyen (US Patent 6,042,624) as applied to claim 1 above and further in view of Hahne (WO98/51602).

Breyen discloses all of the elements of claim 1. Breyen also discloses a base pad (item 207), but does not discloses that the base pad is urged upwards.

Hahne discloses a stacking structure which keeps stacked elements in position by utilizing a fixture which includes a base pad (item 8) which is capable of being continually urged upwards. One in the art would immediately appreciate that such elements ensure proper orientation and stacking of the layers. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used such base pad elements in order to ensure proper orientation and stacking of the layers.

As to claim 3, in addition to the base pad (item 8), Hahne discloses an upper member capable of contacting the top surface of a capacitor stack (flaps 13 and 14) which are capable of moving.

As to claim 4, Hahne discloses side members of the fixture (Figure 1, items 2 and 3) which are capable of functioning as an alignment system as claimed.

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9. Claims 6, 7, 10-16, 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Breyen and Hahne as applied to claims 2-4 above, and further in view of Farahmandi (US 6,233,135).

Breyen and Hahne make obvious the fixture (Figure 5c) and the force member (items 213a and 213c). Hahne discloses that the fixture includes a base pad which can be forced upwards and that the side members of the fixture (Figure 1, items 2 and 3) are capable of functioning as an alignment system as claimed. Hahne also discloses an upper member capable of contacting the top surface of a capacitor stack (flaps 13 and 14) and these members are capable of moving as claimed

The references do not suggest a placement member for placing the capacitor layers into the fixture.

Farahmandi discloses a placement member (see Figure 8c, items 100, 101, and 102) for placing the capacitor layers into the fixture. The X-Y controller (i.e., a robotic controller) ensures proper positioning of the layers. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such a placement member in order to ensure proper layer positioning.

As to claim 7, Farahmandi discloses that the placement member includes an X-Y controller (i.e., a robotic controller).

As to claim 10, Breyen discloses the use of springs for forcing the capacitor layers together (items 213a and 213c, and see Figures 5a to 5c and corresponding descriptions in columns 23 to 25)

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As to claim 11, see the rejection of claim 6 above.

As to claim 12, Hahne as incorporated above discloses that the force member can be used to force the base pad upwards.

As to claim 13, Breyen discloses the use of springs for forcing the capacitor layers together (items 213a and 213c, and see Figures 5a to 5c and corresponding descriptions in columns 23 to 25).

As to claims 14 and 15, in addition to the base pad (item 8), Hahne discloses an upper member capable of contacting the top surface of a capacitor stack (flaps 13 and 14) which are capable of moving.

As to claim 16, Hahne discloses side members of the fixture (Figure 1, items 2 and 3) which are capable of functioning as an alignment system as claimed.

As to claim 18, Farahmandi discloses that the placement member includes an X-Y controller (i.e., a robotic controller).

As to claim 20, the apparatus of Breyen, Hahne and Farahmandi is capable of continually applying compression force as claimed.

Information Disclosure Statement

10. The Information Disclosure Statement filed 1/3/2004 is a duplicate of the Information Disclosure Statement filed on 8/8/2004. Since the references on the 1/3/2004 IDS are identical to those on the 8/8/2004, those references are of record.

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Allowable Subject Matter

11. Claims 5, 9 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George R. Koch III whose telephone number is (571) 272-1230 (TDD only). If the applicant cannot make a direct TDD-to-TDD call, the applicant can communicate by calling the Federal Relay Service at 1-866-377-8642 and giving the operator the above TDD number. The examiner can normally be reached on M-Th 10-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Fiorilla can be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

George R. Koch III Patent Examiner Art Unit 1734

GRK 11/28/2004